

2004
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates
where available

Special Locality Report
155
City of Manassas

Prepared By
Virginia Department of Transportation
Mobility Management Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.





QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source





Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wye - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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City of Manassas

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
<div><div>28</div><div>Nokesville Rd</div></div>	City of Manassas	From: SR 234, WCL Manassas	0.56	30000	F	96%	1%	1%	1%	2%	0%	F	0.077	F	0.592	33000	F
		To: 155-5 Godwin Dr	1.22	16000	F	96%	0%	2%	1%	1%	0%	C	0.081	F	0.575	18000	F
<div><div>28</div><div>Center St</div></div>	City of Manassas	From: Wellington Rd	0.80	23000	F	96%	1%	1%	1%	2%	0%	F	0.084	F	0.575	25000	F
		To: Church St	0.25	11000	F	96%	1%	1%	1%	2%	0%	F	0.078	F		12000	F
<div><div>28</div><div>Center St</div></div>	City of Manassas	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		23000	F	96%	1%	1%	1%	2%	0%	F	0.08	F	0.52	25000	F
		To: Bus SR 234	0.37	13000	F	96%	1%	1%	1%	2%	0%	F	0.072	F		14000	F
<div><div>28</div><div>Center St</div></div>	City of Manassas	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		26000	F	96%	1%	1%	1%	2%	0%	F	0.075	F	0.556	29000	F
		To: Zebedee St															
<div><div>28</div><div>Zebedee St</div></div>	City of Manassas	From: Center St	0.11	12000	F	96%	1%	1%	1%	2%	0%	F	0.079	F		13000	F
		Combined Traffic Estimates for Parallel Roadways on this Route:		NA									0.079	F		NA	
<div><div>28</div><div>Centreville Rd</div></div>	City of Manassas	From: Centreville Rd	0.38	19000	F	96%	1%	1%	1%	2%	0%	F	0.074	F	0.525	20000	F
		To: Church St	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		32000	F	96%	1%	1%	1%	2%	0%	F	NA			34000
<div><div>28</div><div>Centreville Rd</div></div>	City of Manassas	From: Prescott Ave	0.86	29000	F	96%	1%	1%	1%	2%	0%	F	0.07	F	0.532	31000	F
		To: Prince William County Line															
<div><div>28</div><div>Church Street</div></div>	City of Manassas	From: SR 28	0.29	12000	F	96%	1%	1%	1%	2%	0%	F	0.084	F		12000	F
		Combined Traffic Estimates for 2 Parallel Roadways on this Route:		23000	F	96%	1%	1%	1%	2%	0%	F	0.08	F	0.52	25000	F
<div><div>28</div><div>Church Street</div></div>	City of Manassas	From: SR 234	0.82	13000	F	96%	1%	1%	1%	2%	0%	F	0.083	F		14000	F
		Combined Traffic Estimates for 2 Parallel Roadways on this Route:		26000	F	96%	1%	1%	1%	2%	0%	F	0.075	F	0.556	29000	F
<div><div>Bus 234</div><div>Dumfries Rd</div></div>	City of Manassas	From: SCL Manassas	0.46	9700	F	95%	1%	3%	1%	1%	0%	C	0.083	F	0.627	11000	F
		To: 155-6 Hastings Drive	0.55	14000	N	97%	1%	1%	0%	0%	0%	N	0.090	N	0.681	16000	N
<div><div>Bus 234</div><div>Grant Ave</div></div>	City of Manassas	From: 155-4352 Richmond Ave	0.63	14000	F	97%	1%	1%	0%	0%	0%	F	0.090	F	0.681	16000	F
		To: Prince William St	0.12	19000	F	97%	1%	1%	0%	0%	0%	F	0.084	F	0.662	21000	F
<div><div>Bus 234</div><div>Grant Ave</div></div>	City of Manassas	To: SR 28 Church St															

Virginia Department of Transportation
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2004
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Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
<div>Bus</div> <div>234</div> Grant Ave	City of Manassas	From:	SR 28 Church St														
				0.44	11000	F	97%	1%	1%	0%	0%	0%	F	0.08	F	0.603	12000
<div>Bus</div> <div>234</div> Grant Ave	City of Manassas	To:	Beauregard Ave														
			From:	0.32	11000	F	97%	1%	1%	0%	0%	0%	F	0.082	F	0.544	12000
<div>Bus</div> <div>234</div> Sudley Rd	City of Manassas	To:	Sudley Rd														
			From:	1.18	33000	F	97%	1%	1%	0%	0%	0%	C	0.08	F	0.557	36000
		To:	NCL Manassas														

Route		Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
City of Manassas																	
9463 7R		0.15	110	R	From	Osborne and Bennet				C	NA	F	0.575	7400	F	1994	
					To	High School											
9528 76		0.21	NA		From	Osbourn High School				C	NA	F	0.575	7400	F	1994	
					To	Cul-de-Sac											
1	Ashton Ave	0.72	6700	F	From	Godwin Dr				C	0.092	F	0.575	7400	F	2004	
					To	Cockrell Rd											
2		0.05	NA		From	CL Manassas				C	NA	F	0.575	7400	F	2004	
					To	Godwin Dr											
2	Clover Hill Rd	0.45	2900	F	From	97% 0% 2% 0% 0% 0%				F	0.095	F	0.529	3200	F	2004	
					To	Waterford Dr											
2	Clover Hill Rd	0.78	4100	F	From	97% 0% 2% 0% 0% 0%				C	0.099	F	0.574	4500	F	2004	
					To	Wellington Rd											
3	Cockrell Rd	0.27	6500	F	From	Ashton Ave				C	0.087	F	0.642	7200	F	2004	
					To	SR 28 Center Street											
4	Euclid Ave	0.36	7100	F	From	Quarry Rd				F	0.092	F	0.643	7800	F	2004	
					To	Liberia Ave											
4	Euclid Ave	0.34	14000	F	From	93% 1% 3% 2% 1% 0%				C	0.087	F	0.553	15000	F	2004	
					To	Manassas NCL											
5	Godwin Dr	0.88	2000	F	From	155-2 Clover Hill Rd				F	0.103	F	0.613	2200	F	2004	
					To	155-6 Hastings Dr											
5	Godwin Dr	0.88	12000	F	From	95% 1% 1% 1% 2% 0%				C	0.084	F	0.554	14000	F	2004	
					To	SR 28 Nokesville Rd											
6	Hastings Dr	1.50	5800	F	From	Godwin Dr				C	0.093	F	0.61	6400	F	2004	
					To	SR 234 Dumfries Rd											
6	Hastings Dr	1.43	4500	F	From	98% 1% 2% 0% 0% 0%				F	0.084	F	0.584	4900	F	2004	
					To	Liberia Ave											
7	Quarry Rd	0.56	3900	F	From	Zebedee St				F	0.092	F	0.72	4300	F	2004	
					To	Euclid Ave											
8	Signal Hill Rd	0.13	4900	F	From	Richmond Ave				F	0.097	F	0.629	5400	F	2004	
					To	Liberia Ave											
107	Godwin Dr	2.01	17000	F	From	SR 28				C	0.086	F	0.534	19000	F	2004	
					To	SR 234											
4350	Lucasville Rd	0.11	6500	F	From	76-692 JB-76-155 SCL MANASSAS 4350 LUCA				F	0.104	F	0.693	7100	F	2004	
					To	155-6 Hastings Drive											
4352	Richmond Ave	0.60	10000	F	From	Grant Ave				C	0.09	F	0.53	11000	F	2004	
					To	Fairview Ave											
4352	Richmond Ave	0.94	1900	F	From	97% 1% 1% 0% 0% 0%				F	0.099	F	0.548	2100	F	2004	
					To	Liberia Ave											
4353	Fairview Ave	0.74	14000	F	From	ECL Manassas, 76-3000 PW Pkwy				C	0.096	F	0.588	16000	F	2004	
					To	155-4352 Richmond Ave											

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						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
(4353) Fairview Ave	0.50	14000	F	From: 155-4352 Richmond Ave	98%	0%	1%	0%	0%	F	0.089	F	0.591	15000	F	2004
				To: SR 28 Center St												
(4355) Main St	0.24	1800	F	From: Center St	98%	1%	1%	0%	0%	C	0.106	F	0.651	1900	F	2004
				To: Portner Ave												
(4356) Portner Ave	0.43	2200	F	From: Grant Ave	98%	1%	1%	0%	0%	F	0.090	F	0.572	2400	F	2004
				To: Sudley Rd												
(4356) Portner Ave	0.57	4700	F	From: Sudley Rd	98%	1%	1%	0%	0%	C	0.092	F	0.566	5200	F	2004
				To: Liberia Ave												
(4357) Sudley Rd	0.76	22000	F	From: Centreville Rd	98%	1%	1%	0%	0%	F	0.080	F	0.507	24000	F	2004
				To: SR 234												
(4358) Wellington Rd	0.78	11000	F	From: WCL Manassas	98%	0%	1%	0%	0%	C	0.095	F	0.507	12000	F	2004
				To: SR 28												
(4358) Wellington Rd	1.07	11000	F	From: SR 28	98%	0%	1%	0%	0%	F	0.092	F	0.599	12000	F	2004
				To: Clover Hill Rd												
(4358) Wellington Rd	0.61	11000	F	From: Clover Hill Rd	98%	0%	1%	0%	0%	F	0.095	F	0.53	12000	F	2004
				To: SR 234												
(4359) Stonewall Rd	0.38	430	F	From: Dead End	99%	0%	1%	0%	0%	F	0.123	F	0.701	470	F	2004
				To: Center St												
(4359) Stonewall Rd	0.90	5500	F	From: Center St	99%	0%	1%	0%	0%	C	0.09	F	0.512	6000	F	2004
				To: Sudley Rd												
(4361) Liberia Ave	1.77	40000	F	From: 155-4353 Fairview Ave	96%	1%	2%	1%	1%	C	0.075	F	0.604	44000	F	2004
				To: SR 28 Centreville Rd												
(4361) Liberia Ave	1.18	14000	F	From: SR 28 Centreville Rd	96%	1%	2%	1%	1%	F	0.079	F	0.531	15000	F	2004
				To: 155-4365 Stonewall Rd												
(4361) Liberia Ave	0.41	11000	F	From: 155-4365 Stonewall Rd	96%	1%	2%	1%	1%	F	0.090	F	0.508	12000	F	2004
				To: NCL Manassas, 76-1530 Lomond Dr South												
(4365) Stonewall Rd	0.49	3700	F	From: Sudley Rd	98%	0%	1%	0%	0%	F	0.091	F	0.711	4100	F	2004
				To: Stonewall Ct												
(4365) Stonewall Rd	0.26	4100	F	From: Stonewall Ct	98%	0%	1%	0%	0%	C	0.092	F	0.631	4500	F	2004
				To: Liberia Ave												
Greenleaf Dr		230	F	From: Shannon Rd							0.131	F		250	F	2004
				To: Cedar Ridge Dr												
Karlo St		600	F	From: Sarajevo Ct							0.104	F		650	F	2004
				To: Tito Ct												
Longstreet Drive		480	F	From: Jackson Avenue							0.098	F		480	F	2004
				To: Weems Road												
Meadowview Dr		300	F	From: Grant Ave							0.123	F		330	F	2004
				To: Virginia Ave												
Oak Glen Rd		210	F	From: Bayberry Ave							0.114	F		230	F	2004
				To: Thornwood Ln												

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						2Axle	3+Axle	1Trail	2Trail							
City of Manassas																
				From:		Stuart Avenue										
Peabody Street		290	F								0.102	F	0.623	290	F	2004
				To:		Robson Drive										
				From:		Oakglen Rd										
Thornwood Ln		410	F								0.1	F		450	F	2004
				To:		Bayberry Ave										